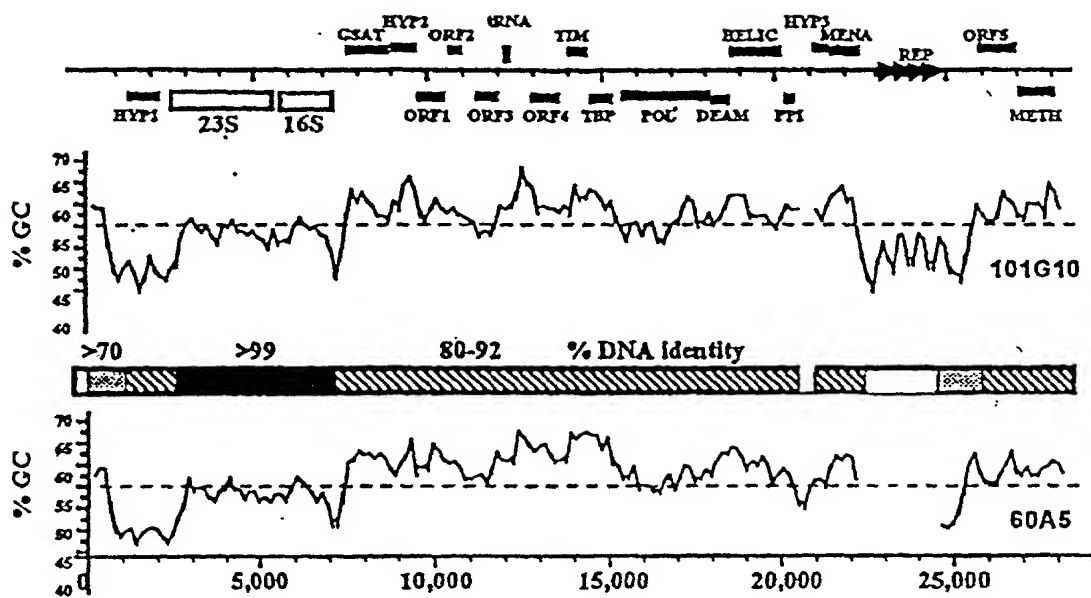


FIGURE 1



10037801-12101

Figure 2

29. D. V0.	Gene	Strain	TATA Box		Coding Start		TATA to Start (bp)	
81	Hypoth 03	A	AAGCTAGACT	TTTAAT	TGGG	ATCCGGCGGG	GCGGCGCATG	25
82		B	AAGCTAAACT	TTTAAT	TGGG	ATCCGGCGAG	CCGGCGCGTG	
83	Hypoth 02	A	GGAAACTTTG	ATTATA	CGGG	CGTGCTGCCC	CGGGGCCCAT	26
84		B	GGAAACTTTG	ATTATA	CGGG	CGTACATTCC	CGGGGCCCAT	
85	ORF 02	A	AAGGCAAGGT	AATAAT	AGCC	TGCCGTCTGT	AACGGCCGTA	27
86		B	ACGGCAAGGT	AATAAT	AGCC	TGCCGTCCGT	ACCTGCCGTA	
87	ORF 03	A	CATGGAACTA	GATATT	AACC	GGTCCGCGG	ATCCCATGCA	27
88		B	CATGGAACTA	GATAAT	AACC	GGTCCGCGG	GTACAATGCA	
89	PPI	A	ATACCGAGAA	GTTATA	GCAG	GGTATGGAAT	GTGCGCGCGC	28
90		B	AGCACGACAA	GTTATA	GCAG	GGTACAAAGG	AGCAGCGCAC	
91	GSAT	A	ATCCGCCCTG	ATTAAA	TTAT	GGGGGGAGCG	GCCTGCTGCC	28
92		B	ATCCGGCCTC	ATTAAA	TTAC	GGGGGGTACA	ACCTGCTGCC	
93	ORF 05	A	CCTTCATACA	CATAAA	TCCC	GCTTGGATGT	GCGGCTGCGC	28
94		B	ACTTCATACA	CATAAA	TCCC	GCCTGAACGG	TCGTCCGCGC	
95	deaminase	A	.GGCATATAC	CATAAT	ATGC	CGGGCGGTGG	CACCATGGCC	29
96		B	CCGCATATAC	CATAAT	ATGC	CGGGCGGGGG	CAGGCTGCCC	
97	RNA helic	A	TGTACGAAAC	CATAAA	ACAA	CAGGCCGCGT	CAGGGCCGCG	29
98		B	GGGTAGAAAC	CATAAA	ACAA	CAGGCCGCGG	CAGGGCG.CG	
99	ORF 06	A	..ACACGCAG	TATAAA	CGGG	GGCCCGGGCG	GCGCGTATCA	29
100		B	ATACACGTGG	TATAAA	CAGA	GG.CCGGACG	GCGCGGACCA	
101	tRNA-tyr	A	GCGATAGTTA	TTTAAA	ACTA	GGATGCCGAT	CACGGATCGT	29
102		B	GCGATAGTTA	TTTAAA	ACTA	GGATGCCGGG	CACCCGTCGT	
103	TBP	A	CCGGGCCCCG	GTTAAA	ATAG	CG.CACGGGC	GGATCCTGAC	30
104		B	CCGGGCCCCG	GTTAAA	ATAG	AGTGCGGCCG	GGCACC GGAT	
105	TIM	A	GCGTCGATAG	AATAAA	TACG	CGCAGGGGGC	CCC GTGGCGC	36
106		B	GCGTCGATAG	AATAAA	TACG	CGC.GGGGCC	GCGGTGC...	
107	Hypoth 01	A	ATTTCAACTA	CATAAA	TGCC	TAGTTACGCA	GAAATAGCAA	45
108		B	ACTTCAACTA	CATAAA	TGCC	TAGCTACGCA	GAAATATCAA	
109	ORF 01	A	ACGGCAGGCT	ATTATT	ACCT	TGCCTTGCGT	TGTA //..G	52
110		B	ACGGCAGGCT	ATTATT	ACCT	TGCCGTGTG.	TACA //..G	
111	Methylase	A	CTACAACGAT	TTTAAG	TCGG	CGCCGGGGCA	GCCG.//..G	104
112		B	CTACAAAGAT	TTTAAG	ACGG	CGCGGGTGCC	GCCG.//..T	
113	16S RNA	A	TCGGCGATGG	TTTATA	TGCC	CATGGACGGG	CCGATCCGAT	220
114		B	CCGGCGATGG	TTTATA	TGCC	CATGGACAAG	GCGATCCGAT	
Archaeal promoter consensus			YTTAWA					

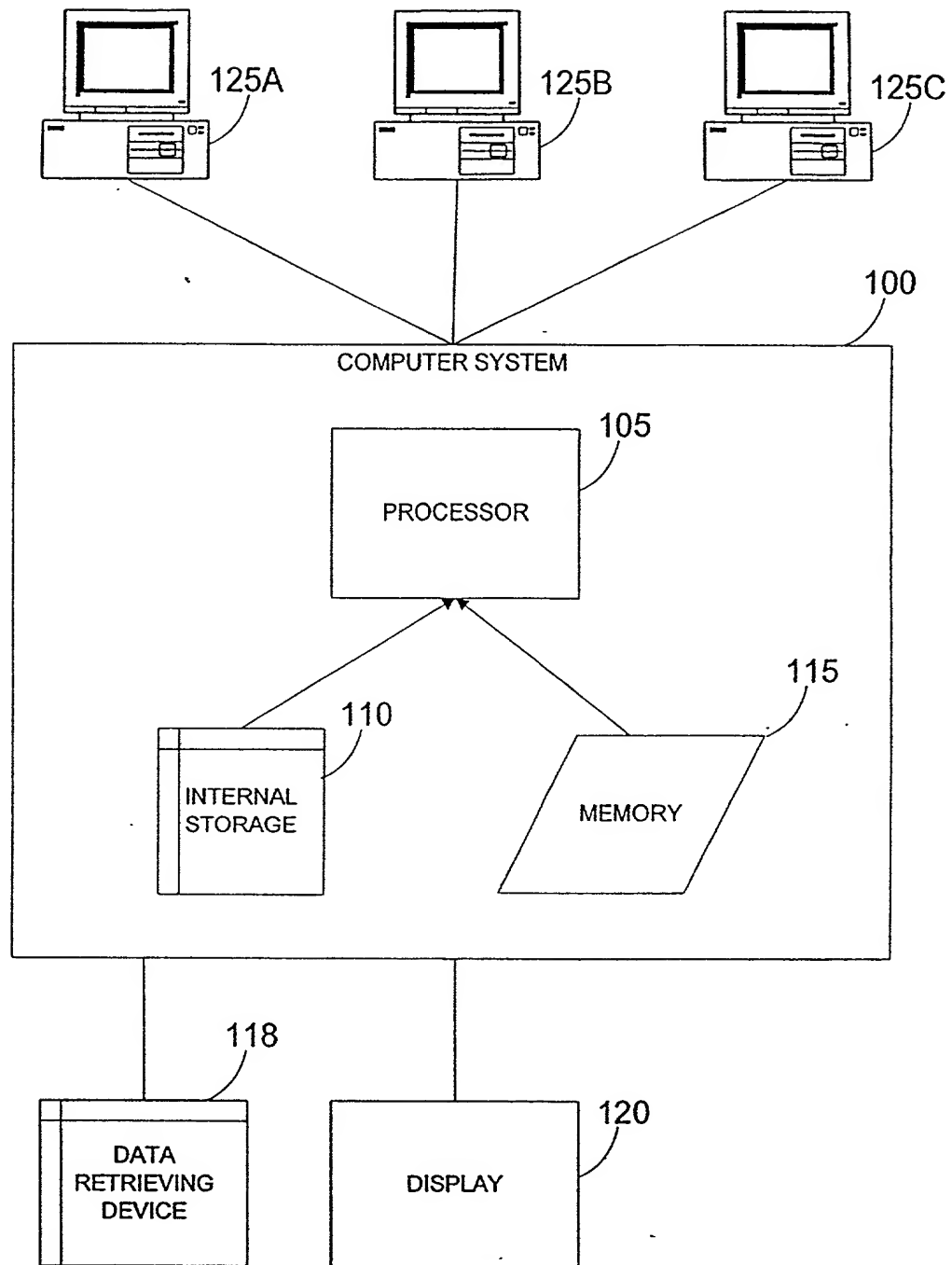


FIGURE 3

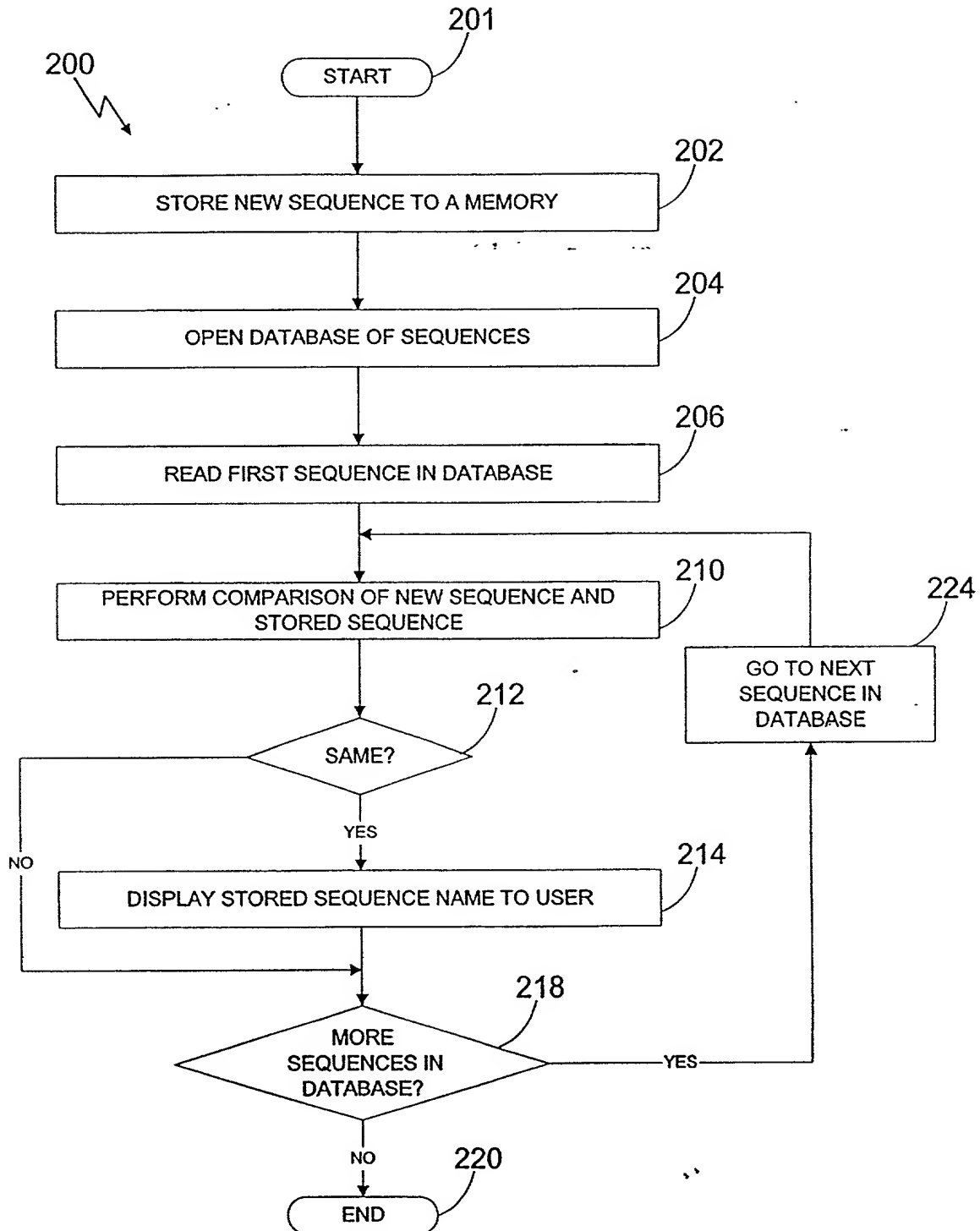


FIGURE 4

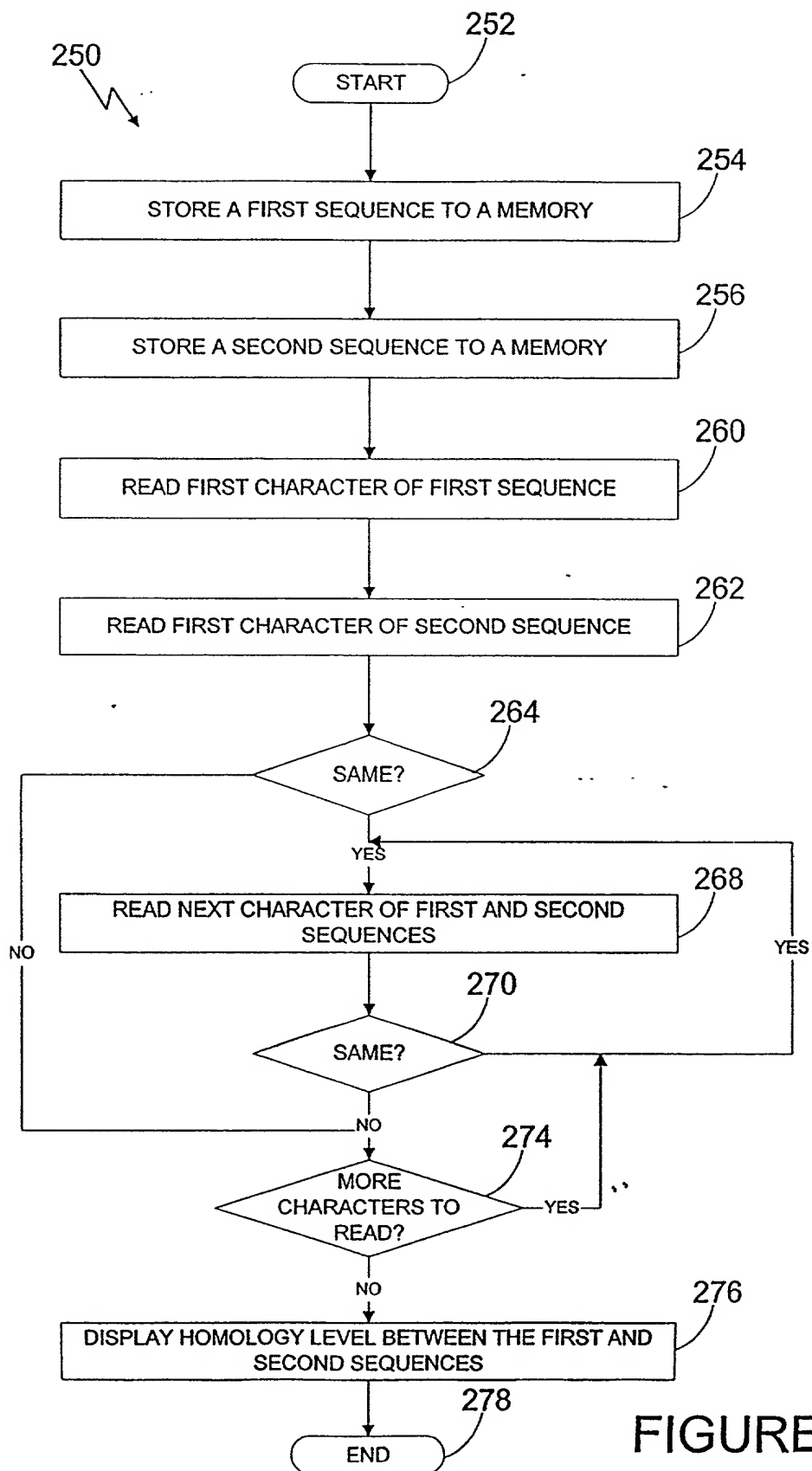


FIGURE 5

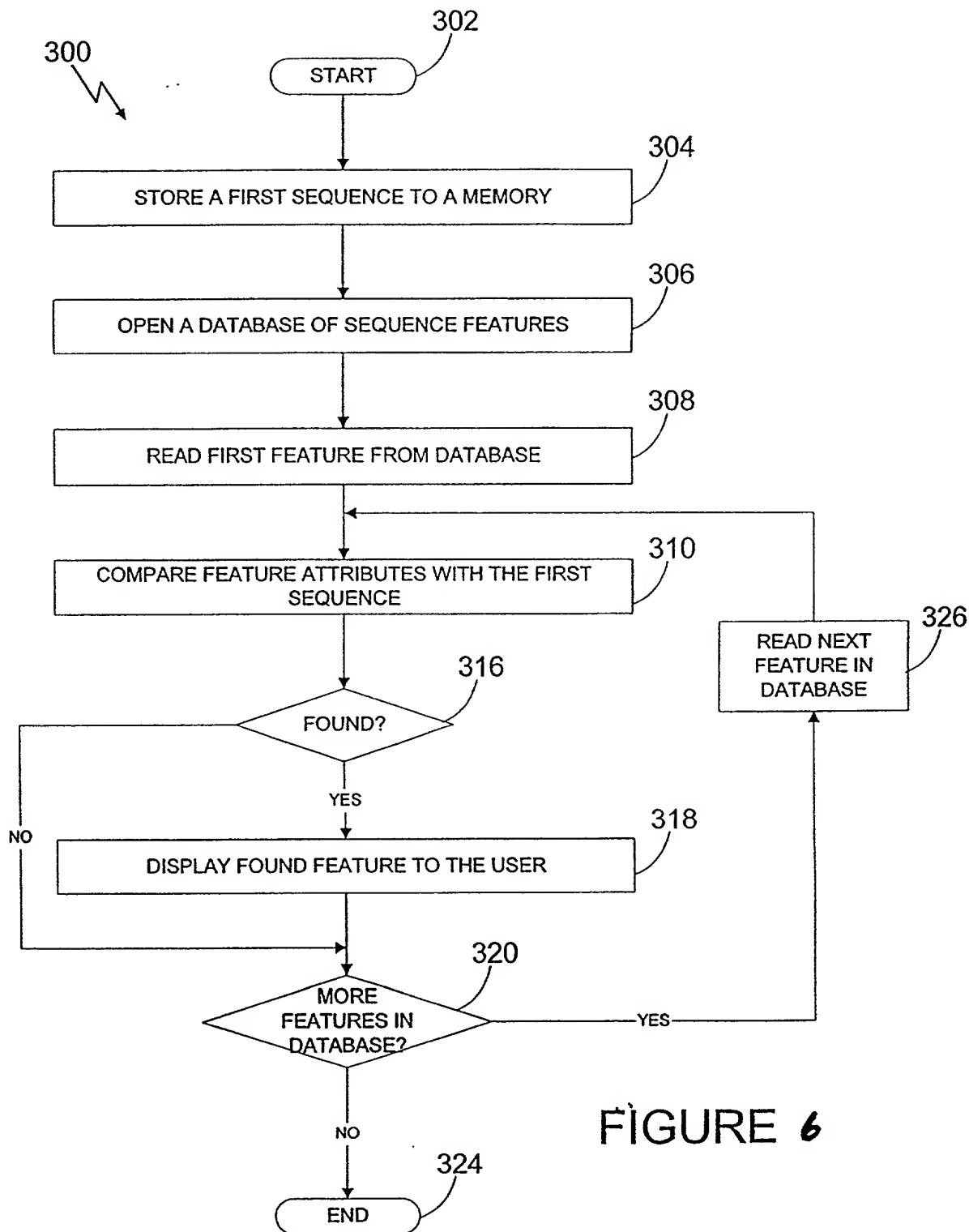


FIGURE 6